

## INTERNATIONAL BUILDING CODE

### 24.301.109 DEFINITIONS (1) As used in this chapter:

- (a) "Department" means the Department of Labor and Industry.
- (b) "IBC" means the International Building Code, ~~2012~~ 2018 edition.
- (c) "IMC" means the International Mechanical Code, ~~2012~~ 2018 edition.
- (d) "IFGC" means the International Fuel Gas Code, ~~2012~~ 2018 edition.

(History: 50-60-203, MCA; IMP, 50-60-203, MCA; NEW, 2010 MAR p. 1733, Eff. 7/30/10; AMD, 2014 MAR p. 2776, Eff. 11/7/14.)

24.301.131 INCORPORATION BY REFERENCE OF INTERNATIONAL BUILDING CODE (1) The department adopts and incorporates by reference the International Building Code, ~~2012~~ 2018 edition, unless another edition is specifically stated, together with Appendix Chapter C (Group U - Agricultural Buildings).

24.301.146 MODIFICATIONS TO THE INTERNATIONAL BUILDING CODE APPLICABLE TO BOTH THE DEPARTMENT'S AND LOCAL GOVERNMENT CODE ENFORCEMENT PROGRAMS (1) through (9) remain the same.

(10) Subsection 903.3.5, Inadequate Water Supply, is amended by addition of the following: "This subsection shall apply to buildings which are required by the International Building Code to be provided with an automatic fire extinguishing system and do not have access to an existing multiple user water supply system, such as a municipal water supply system or a private community water supply system, capable of providing the water supply requirements of National Fire Protection Association Standard for the Installation of Sprinkler Systems, ~~2010~~ 2016 edition (NFPA 13). Under such circumstances, water storage requirements may be modified by the building official. The modified design shall include sufficient storage onsite to operate the hydraulically remote area for the response time of the local fire department. Response time is the time from alarm to the time the fire department can apply water to the fire. Response time shall be established by the use of the formula  $T = 6.5 \text{ minutes (mobilization time)} + 1.7 \text{ minutes/mile } D \text{ (travel time)}$ , where T is response time, in minutes, and D is distance, in miles, from the fire station to the building. The modified water supply shall be sufficient to operate the system for the response time calculated above but not be less than 20 minutes. Water supply requirements shall be established by using the area/density method as defined in NFPA 13. A reduction in water storage of up to 50 percent, but not less than that required for a 20 minute supply is allowed. All automatic fire sprinkler system designs and components shall be in compliance with NFPA 13. When a modified water storage is allowed, the automatic fire sprinkler system must be equipped with a flow alarm, digital alarm communicator transmitter, and a fire department connection. The automatic fire sprinkler system shall be monitored by an approved central station in accordance with NFPA 72, National Fire Alarm Code, ~~2010~~ 2016 edition."

(11) The standards for fire-extinguishing systems and standpipe systems referenced in Chapter 9 of the International Building Code shall be the following unamended National Fire Protection Association (NFPA) Standards:

(a) Fire-extinguishing system.

(i) Installation of Sprinkler Systems: NFPA 13 Standard for the Installation of Sprinkler Systems, ~~2010~~ 2016 edition.

(ii) Installation of Sprinkler Systems in Group R Occupancies Four Stories or Less: NFPA 13R Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height, ~~2010~~ 2016 edition.

(b) Standpipe Systems: NFPA 14 Standard for the Installation of Standpipe and Hose Systems, ~~2010~~ 2016 edition.

(c) Notwithstanding any other provisions or references to the contrary within the NFPA standards, the authority having jurisdiction over any fire protection system required by the International Building Code shall be the building official.

(12) remains the same.

(13) Subsection ~~4018.1~~ 1020.1 is amended by addition of the following: "Upgrading of corridors in existing E occupancies serving an occupant load of 30 or more, may have walls and ceilings of not less than one-hour fire-resistive construction as required by this code. Existing walls surfaced with wood lathe and plaster in good condition or 1/2-inch gypsum wallboard or openings with fixed wired glass set in steel frames are permitted for corridor walls and ceilings and occupancy separations when approved. Doors opening into such corridors shall be protected by 20-minute fire assemblies or solid wood doors not less than 1 3/4 inches (45 mm) thick. Where the existing frame will not accommodate the 1 3/4-inch-thick door, a 1 3/8-inch-thick solid bonded wood-core door or equivalent insulated steel door shall be permitted. Doors shall be self-closing or automatic closing by smoke detection. Transoms and openings other than doors from corridors to rooms shall comply with this code or shall be covered with a minimum of 3/4-inch plywood or 1/2-inch gypsum wallboard or equivalent material on the room side. Exception: Existing corridor walls, ceilings, and opening protection not in compliance with the above may be continued when such buildings are protected with an approved automatic sprinkler system throughout. Such sprinkler system may be supplied from the domestic water system if it is of adequate volume and pressure."

(14) For "R" occupancies that are exempt from the requirements of a fire sprinkler system, pursuant to ARM 24.301.146(12), Table ~~4018.1~~ 1020.1, referenced in subsection ~~4018.1~~ 1020.1, shall be amended by the deletion of the language "Not Permitted" under the heading "Required Fire-Resistive Rating (hours) – Without sprinkler system" for "R" occupancies with an occupant load served by corridor of greater than ten. Under that same location where "Not Permitted" is to be deleted, the language "1" shall be inserted instead, which will require those corridors to have one-hour fire-resistive ratings.

(15) through (19) remain the same.

(20) Delete Section 3109 in its entirety and replace with the International Swimming Pool and Spa Code, ~~2015~~ 2018 edition as adopted in ARM 24.301.175.

(21) through (35) remain the same.

## INTERNATIONAL RESIDENTIAL CODE

24.301.154 INCORPORATION BY REFERENCE OF INTERNATIONAL RESIDENTIAL CODE (1) remains the same.

(2) The Department of Labor and Industry adopts and incorporates by reference the International Residential Code, ~~2012~~ 2018 Edition, referred to as the International Residential Code or IRC.

(3) through (5) remain the same.

(6) Subsection 302.2, Townhouses, ~~delete add the an exception and replace with the following:~~ "A common two-hour fire-resistance-rated wall assembly tested in accordance with ASTM E 119 or UL 263 is permitted for townhouses if such walls do not contain plumbing or mechanical equipment, ducts, or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight against exterior walls and the underside of the roof sheathing. Electrical installations shall be installed in accordance with the adopted electrical code. Penetrations of electrical outlet boxes shall be in accordance with Section R302.4."

(7) through (14) remain the same.

(15) Subsection ~~501.3~~ 302.13, Fire Protection of Floors, is deleted in its entirety.

(16) remains the same.

(17) Subsection ~~602.10.11~~ 602.10.10, Cripple Wall Bracing, ~~delete the last sentence and replace with the following~~ add the following sentence: "The distance between adjacent edges of braced wall panels shall be 20 feet."

(18) Subsection ~~703.8~~ 703.4, Flashing, delete the first paragraph in its entirety and replace with the following: "Flashing shall be provided in accordance with this section to prevent entry of water into the wall cavity or penetration of water to the building structural framing components. Flashing shall extend to the surface of the exterior wall finish or to the water resistive-barrier for drainage and shall be installed at all of the following locations:"

Further, delete Number "1", number "1.1", number "1.2", and number "1.3" in their entirety and replace with the following: "1. Exterior window and door openings."

Number "2" through "7" remain unchanged in Subsection ~~R703.8~~ 703.4.

(19) Add new subsection as follows: "~~R703.8.1~~ 703.4.1, Flashing Materials. Approved flashing materials shall be corrosion-resistant. Self-adhered membranes used as flashing shall comply with AAMA 711. Pan Flashing shall comply with Section ~~R703.8.2~~ 703.4.2. Installation of flashing materials shall be in accordance with Section ~~703.8.3~~ 703.4.3."

(20) Add new subsection as follows: "~~R703.8.2~~ 703.4.2, Pan Flashing. Pan Flashing installed at the sill of exterior window and door openings shall comply with this section. Pan Flashing shall be corrosion-resistant and shall be permitted to be pre-manufactured, fabricated, formed, or applied at the job site. Self-adhered membranes complying with AAMA 711 shall be permitted to be used as Pan Flashing. Pan Flashing shall be sealed or sloped in such a manner as to direct water to the surface of the exterior wall finish or to the water-resistive barrier for subsequent drainage."

(21) Add new subsection as follows: "~~R703.8.3~~ 703.4.3, Flashing Installation. Installation of flashing materials shall be in accordance with one or more of the following methods:

1. The fenestration manufacturer's installation and flashing instructions.
2. The flashing manufacturer's installation instructions.
3. Flashing details approved by the Building Official.
4. As detailed by a Registered Design Professional."

(22) and (23) remain the same.

## **INTERNATIONAL EXISTING BUILDING CODE**

### 24.301.171 INCORPORATION BY REFERENCE OF INTERNATIONAL

EXISTING BUILDING CODE (1) The department adopts and incorporates by reference the International Existing Building Code (IEBC), ~~2012~~ 2018 edition, which may be used as an alternate prescriptive method(s) for the remodel, repair, alteration, change of occupancy, addition, and relocation of existing building.

(1) (a) through (4) remain the same.

## **UNIFORM PLUMBING CODE**

### 24.301.301 INCORPORATION BY REFERENCE OF UNIFORM PLUMBING

CODE (1) The department adopts and incorporates by reference the Uniform Plumbing Code, ~~2012~~ 2018 edition, unless another edition is specifically stated, together with the following appendix chapters and amendments:

(a) through (c) remains the same.

(d) Subsection ~~103.1.2~~ 103.3.1, is amended with the addition of the following language:  
The requirements for who must be licensed to perform plumbing work is regulated by Title 37, chapter 69, MCA.

(e) Subsections ~~102.3, 102.4, 102.5, 103.1, 103.2, 103.3, 103.4, 103.5, and 103.6~~ 104.1, 104.2, 104.3, 104.3.2, 104.4, 104.5, 105.0, 105.4, 106.1, 106.3, and 107.0 will be left as is for use by local governments (i.e., municipalities and counties), but will not be used by the department and the state of Montana. For the purposes of enforcement by the department, these subsections are replaced with provisions of Title 50, chapter 60, part 5, MCA.

(i) through (iv) remains the same.

(f) through (m) remains the same.

(o) Subsection ~~604.2~~ 604.3, the exception is amended to read as follows: Exception: Type M copper tubing may be used for water piping when piping is above ground in, or on, a building.

(p) Subsection ~~605.13.2~~ 605.12.2, Solvent Cement Joints, delete the third sentence and replace with the following: "Where surfaces to be joined are cleaned and free of dirt, moisture, oil, and other foreign material, apply approved primer in accordance with ASTM F 656."

(q) Subsection ~~701.1~~ 701.2 is amended to read as follows: "Drainage piping shall be cast iron, galvanized steel, galvanized wrought iron, lead, copper, brass, Schedule 40 ABS DWV, Schedule 40 ABS DWV cellular core, Schedule 40 PVC DWV, Schedule 40 PVC DWV cellular core, extra strength vitrified clay pipe, or other approved materials having a smooth and uniform bore, except that:

"(1) Galvanized wrought iron or galvanized steel pipe shall not be used underground, and it shall be kept at least six inches (152 mm) above ground. "(2) ABS and PVC DWV piping installations must be installed in accordance with Chapter ~~15~~ 14, "Firestop Protection." Except for individual single-family dwelling units, materials exposed within ducts or plenums shall have a flame-spread index of not more than 25 and a smoke-developed index of not more than 50, when tested in accordance with the Test for Surface-Burning Characteristics of the Building Materials (See the building code standards based on ASTM E-84 and ANSI/UL 723). "(3) Vitrified clay pipe and fittings shall not be used above ground or where pressurized by a pump or ejector. They shall be kept at least 12 inches (305 mm) below ground.

"(4) Copper tube for drainage and vent piping shall have a weight not less than that of copper drainage tube type DWV." (r) remains the same.

(s) Subsection ~~701.1~~ (4) 701.2(4), is amended with the addition of the following language: Copper tube for underground drainage and vent piping shall have a weight of not less than that of copper tube type L.

(t) remains the same.

(u) Subsection ~~705.7.2~~ 705.6.2 Solvent Cement Joints, delete the third sentence and replace with the following: "Where surfaces to be joined are cleaned and free of dirt, moisture, oil, and other foreign material, apply approved primer in accordance with ASTM F 656." (v) through (y) remains the same.

(z) Subsection ~~807.4~~ 807.3 Domestic Dishwashing Machine, add exception as follows: "Exception #1: An approved type of indirect waste receptor may be used to receive discharge from domestic dishwashing machines." (aa) through (ah) remains the same.

(ai) Chapter 13, Health Care Facilities and Medical Gas and Vacuum Systems, is deleted except for subsections 1303.0, 1304.0, 1305.0, 1306.0, 1307.0, and 1308.0. In lieu of Chapter 13, except for the subsections not deleted, the Department of Labor and Industry adopts and incorporates by reference the National Fire Protection Association's Standard NFPA 99, ~~2012~~ 2015 edition, Chapters 1 through 5 for the exclusive use as a standard for medical gas and vacuum systems, unless a different edition date is specifically stated, as the standard for the installation of medical gas and vacuum systems. The requirements of this rule shall not be construed as to replace or supersede any additional requirements for testing and certification of medical gas and vacuum systems, including independent third party certification of systems, as may be applicable. NFPA 99 is a nationally recognized standard setting forth minimum standards and requirements for medical gas and vacuum systems. A copy of NFPA 99 may be obtained from the National Fire Protection Association, One Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.

(2) remains the same.

## **INTERNATIONAL MECHANICAL CODE**

### **24.301.172 INCORPORATION BY REFERENCE OF INTERNATIONAL**

**MECHANICAL CODE** (1) The department adopts and incorporates by reference the International Mechanical Code, ~~2012~~ 2018 edition, published by the International Code Council, unless another edition is specifically stated, together with the following amendments:

(1) (a) through (f) remain the same.

(g) Table ~~403.3~~ 403.3.1.1 is amended by the addition of a footnote "i".

Footnote "i" is to be referenced in the table at, "Private Dwellings, Single and Multiple". The footnote at the end of the table should be as follows: "i. Every dwelling unit shall have installed a minimum 100 CFM exhaust fan controlled by either an automatic timer or humidistat. Structures built to the provisions of the International Residential Code may provide mechanical ventilation per Section ~~M1507~~ M1505 of the International Residential Code." (2) through (6) remain the same.

## **INTERNATIONAL FUEL GAS CODE**

### **24.301.173 INCORPORATION BY REFERENCE OF INTERNATIONAL**

**FUEL GAS CODE** (1) The department adopts and incorporates by reference the International Fuel Gas Code, ~~2012~~ 2018 edition, published by the International Code Council, IFGC, unless another edition is specifically stated, together with the following amendments:

(1) (a) through 6 remain the same.

## **NATIONAL ELECTRICAL CODE**

### **24.301.401 INCORPORATION BY REFERENCE OF NATIONAL**

**ELECTRICAL CODE** (1) The department, by and through the Building Codes Bureau, adopts and incorporates by reference the National Fire Protection Association Standard NFPA 70, National Electrical Code, ~~2014~~ 2017 edition referred to as the National Electrical Code, unless another edition date is specifically stated. The National Electrical Code is a nationally recognized model code setting forth minimum standards and requirements for electrical installations. A copy of the National Electrical Code may be obtained from the Department of Labor and Industry, Building Codes Bureau, P.O. Box 200517, Helena, MT 59620-0517 or the National Fire Protection Association, One Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.



## INTERNATIONAL SWIMMING POOL AND SPA CODE

24.301.175 INCORPORATION BY REFERENCE OF INTERNATIONAL SWIMMING POOL AND SPA CODE (ISPSC) (1) The department adopts and incorporates by reference the International Swimming Pool and Spa Code, ~~2015~~ 2018 edition, published by the International Code Council, unless another edition is specifically stated, together with the following amendments:

(1) (a) through (6) remain the same.

## INTERNATIONAL WILDLAND-URBAN INTERFACE CODE

24.301.181 INCORPORATION BY REFERENCE OF INTERNATIONAL WILDLAND-URBAN INTERFACE CODE (IWUIC) (1) The department adopts and incorporates by reference the International Wildland-Urban Interface Code, ~~2012~~ 2018 edition, published by the International Code Council, unless another edition is specifically stated, together with Appendix "B" (Vegetation Management Plan) and Appendix "C" (Fire Hazard Severity Form).

(2) through (10) remain the same.

- (11) Subsection ~~109.4.4~~ 110.4.4, Citations, is deleted in its entirety.
- (12) Subsection ~~109.4.5~~ 110.4.5, Unsafe Conditions, is deleted in its entirety.
- (13) Subsection ~~109.4.5.1~~ 110.4.5.1, Record, is deleted in its entirety.
- (14) Subsection ~~109.4.5.2~~ 110.4.5.2, Notice, is deleted in its entirety.
- (15) Subsection ~~109.4.5.2.1~~ 110.4.5.2.1, Method of Service, is deleted in its entirety.
- (16) Subsection ~~109.4.5.3~~ 110.4.5.3, Placarding, is deleted in its entirety.
- (17) Subsection ~~109.4.5.3.1~~ 110.4.5.3.1, Placard Removal, is deleted in its entirety.
- (18) Subsection ~~109.4.5.4~~ 110.4.5.4, Abatement, is deleted in its entirety.
- (19) Subsection ~~109.4.5.5~~ 110.4.5.5, Summary Abatement, is deleted in its entirety.
- (20) Subsection ~~109.4.5.6~~ 110.4.5.6, Evacuation, is deleted in its entirety.
- (21) through (24) remain the same.